

RESPONSE SHEET

TO: Annette Vietti-Cook, Secretary

FROM: Commissioner Baran

SUBJECT: **SECY-18-0106: Consideration in the Rulemaking Process of Issue Raised in Petition for Rulemaking on Applicability of Risk-Informed Categorization and Treatment of Structures, Systems, and Components for Nuclear Power Reactors (PRM-50-110; NRC-2015-0028)**

Approved Disapproved Abstain Not Participating

COMMENTS: Below Attached None

Currently, nuclear power plants licensed under Part 50, as well as combined license applicants under Part 52, can voluntarily implement the provisions of 10 CFR 50.69, which allow for the risk-informed categorization of structures, systems, and components. The petitioner requests that NRC amend § 50.69 to allow combined license holders under Part 52 to also use this provision. I agree with the petitioner and the NRC staff that a nuclear power plant that meets the requirements of § 50.69, whether licensed under part 50 or part 52, should have the opportunity to implement the risk-informed approach of this provision. This straightforward change would fit naturally as part of the ongoing rulemaking to better align the safety standards of Part 50 and Part 52. I therefore (1) approve the staff's recommendation to address this issue in the ongoing Part 50/52 rulemaking, (2) approve publication of the *Federal Register* notice announcing this decision on the petition for rulemaking, subject to the attached edits, and (3) approve issuance of the letter to the petitioner, subject to the attached edits.

Entered in "STARS"

Yes

No



SIGNATURE

2/5/19

DATE

NUCLEAR REGULATORY COMMISSION

10 CFR Part 50

RIN 3150-AI66

[Docket No. PRM-50-110; NRC-2015-0028; NRC-2009-0196]

**Risk-Informed Categorization and Treatment of Structures, Systems, and
Components for Nuclear Power Reactors**

AGENCY: Nuclear Regulatory Commission.

ACTION: Petition for rulemaking; consideration in the rulemaking process.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) will consider, within the scope of a Commission-directed rulemaking (Incorporation of Lessons Learned From New Reactor Licensing Process (Parts 50 and 52 Licensing Process Alignment)), the issue raised in a petition for rulemaking (PRM) submitted by Michael D. Tschiltz, on behalf of the Nuclear Energy Institute (NEI), dated January 15, 2015. The petitioner requested that the NRC amend its regulations to clarify and extend the applicability of its regulations related to risk-informed categorization and treatment of structures, systems, and components (SSCs) for nuclear power reactors. The petition was docketed by the NRC on February 6, 2015, and was assigned Docket No. PRM-50-110. The NRC has determined that the PRM has merit and is appropriate for consideration in the rulemaking process.

DATES: The docket for the petition for rulemaking, PRM-50-110, is closed on **[INSERT DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]**.

ADDRESSES: Please refer to Docket IDs NRC-2015-0028 and NRC-2009-0196 when contacting the NRC about the availability of information for this petition. You may obtain publicly-available information related to this action by any of the following methods:

- **Federal Rulemaking Web Site:** Go to <http://www.regulations.gov> and search for Docket IDs NRC-2015-0028 and NRC-2009-0196. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; e-mail: Carol.Gallagher@nrc.gov. For technical questions, contact the individual listed in the FOR FURTHER INFORMATION CONTACT section of this document.

- **The NRC's Agencywide Documents Access and Management System (ADAMS):** You may obtain publicly-available documents online in the ADAMS Public Document collection at <http://www.nrc.gov/reading-rm/adams.html>. For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdr.resource@nrc.gov. For the convenience of the reader, instructions about obtaining materials referenced in this document are provided in the "Availability of Documents" section.

- **The NRC's PDR:** You may examine and purchase copies of public documents at the NRC's PDR, O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

FOR FURTHER INFORMATION CONTACT: Andrew Carrera, Office of Nuclear Material Safety and Safeguards; U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-1078; e-mail: Andrew.Carrera@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. The Petition

The NRC received and docketed a PRM¹ dated January 15, 2015, submitted by Michael D. Tschiltz, on behalf of NEI. On March 27, 2015, the NRC published a notice of docketing in the *Federal Register* (80 FR 16308). The NRC held a public meeting on September 16, 2015, to gain further understanding of the scope and bases for the PRM. The meeting summary² is publicly available in ADAMS.

The petitioner asked the NRC to amend its regulations to clarify and extend the applicability of § 50.69 of Title 10 of the *Code of Federal Regulations* (10 CFR), "Risk-informed categorization and treatment of structures, systems and components (SSCs) for nuclear power reactors." The regulations in § 50.69 allow nuclear power plant licensees and certain applicants to seek NRC approval to comply with implement the § 50.69 requirements as an alternative to compliance with the requirements for RISC-3 and RISC-4 SSCs listed in § 50.69(b)(1)(i)-(xi). Currently, the applicability provisions in § 50.69 allow holders of a nuclear power plant license under 10 CFR parts 50, ~~"Domestic Licensing of Production and Utilization Facilities,"~~ and 54, ~~"Requirements for Renewal of Operating Licenses for Nuclear Power Plants,"~~ and license applicants under 10 CFR parts 50 and 52, ~~"Licenses, Certifications, and Approvals for Nuclear Power Plants,"~~ to voluntarily request the NRC's review and approval to implement the provisions

¹ On February 25, 2014, Anthony Pietrangelo (petitioner), on behalf of NEI, submitted a letter (ADAMS Accession No. ML14056A278) requesting that the NRC issue a direct final rulemaking to amend § 50.69, "Risk-informed categorization and treatment of structures, systems and components for nuclear power reactors," making it applicable to holders of a combined license (COL). The NRC staff reviewed the petitioner's request and concluded that it did not meet the NRC's acceptance criteria in § 2.802(c) for a PRM because the request did not include a description of the petitioner's grounds for and interest in the requested action. On April 11, 2014, in accordance with § 2.802(c), the NRC offered the petitioner an opportunity to meet the NRC's petition acceptance criteria within 90 days. On January 15, 2015, Michael D. Tschiltz, on behalf of NEI, filed a PRM on the same topic, and included a description of the petitioner's grounds for and interest in the requested action. The NRC determined that the petition met the threshold sufficiency requirements for a petition for rulemaking under § 2.802, "Petition for rulemaking," and the petition was docketed as PRM-50-110.

²The meeting summary indicated that the NRC might issue a generic communication to clarify a misunderstanding of the reasons that COL holders were excluded from the § 50.69 provisions. The NRC will conduct rulemaking to determine if COL holders can use § 50.69; NRC will not issue a separate generic communication on this issue.

in § 50.69. However, because the “applicability” provisions in § 50.69(b) do not include combined license (COL) holders under 10 CFR part 52, they cannot request the NRC’s review and approval to implement the provisions in § 50.69. The petitioner proposed a change to § 50.69 to allow COL holders to use the voluntary provisions of this regulation.

The petitioner asserted that preventing COL holders from using the provisions in § 50.69 is inappropriate and provided the following reasons-arguments in support of its position:

- A COL applicant that requests and receives NRC approval to implement the provisions in § 50.69 could later become a COL holder and, therefore, would no longer be allowed to use the previous approval.
- As written, the regulation denies applicability to plants possessing COLs for the life of the plant. A plant that currently holds a COL and that has been in operation for 15 years is in all practical matters no different than the current operating fleet, which, in accordance with the current rule language, can implement the provisions in § 50.69.
- Combined license holders must comply with the regulations in § 50.71(h)(1) and (2), which require COL holders to produce and maintain probabilistic risk assessments (PRAs) that comport with NRC-endorsed PRA consensus standards. Therefore, by operation of the NRC’s existing rules, COL holders will possess the necessary PRA infrastructure to effectively implement the provisions in § 50.69. In particular, these plants will have developed Level 1 and Level 2 PRAs before fuel load. These PRAs will have covered those initiating events and modes for which NRC-endorsed consensus standards exist. Additionally, the NRC requires these plants to periodically (at least every 4 years) maintain and upgrade the PRA consistent with NRC-endorsed consensus standards until the permanent cessation of operations under § 52.110(a).

early site permit reviews, as well as new reactor construction.³ The overall goal of this rulemaking is to improve alignment between the licensing processes in 10 CFR part 50 and 10 CFR part 52, ensuring that the application of safety standards is consistent, regardless of the process used to license a new reactor, ~~and reflect lessons learned from recent COL, design certification, and early site permit reviews and construction of new reactors licensed under 10 CFR part 52.~~ The NRC plans to begin this rulemaking in fiscal year 2019. This goal would be furthered by addressing differences in how § 50.69 applies to part 50 and part 52 licensees.

Therefore, ~~t~~The NRC will address-consider the issue raised in PRM-50-110 in the “Incorporation of Lessons Learned From New Reactor Licensing Process” (Parts 50 and 52 Licensing Process Alignment) rulemaking. The staff began this rulemaking in fiscal year 2019.

III. Availability of Documents

The documents identified in the following table are available to interested persons through one or more of the following methods, as indicated.

DOCUMENT	ADAMS ACCESSION NO. / FEDERAL REGISTER CITATION
Petition for Rulemaking to Amend 10 CFR 50.69, “Risk-Informed Categorization and Treatment of Structures, Systems and Components for Nuclear Power Reactors,” dated January 15, 2015.	ML15037A481
Notice of Docketing, “Applicability of Risk-Informed Categorization Regulation to Combined Licenses,” dated March 27, 2015.	80 FR 16308

³ See SECY-15-0002, “Proposed Updates of Licensing Policies, Rules, and Guidance for Future New Reactor Applications,” dated January 8, 2015, and Staff Requirements Memorandum (SRM)-SECY-15-0002, “Proposed Updates of Licensing Policies, Rules, and Guidance for Future New Reactor Applications,” dated September 22, 2015.

Meeting Summary, "Discussion on the Petition for Rulemaking Related to 10 CFR 50.69, Risk-Informed Categorization and Treatment of Structures, Systems and Components for Nuclear Power Reactors," dated September 25, 2015.	ML15268A353
Petition for Rulemaking, "Applicability of 10 CFR 50.69 to Holders of Combined Operating Licenses Under Part 52," dated February 25, 2014.	ML14056A278
Proposed Rule, "Risk-Informed Categorization and Treatment of Structures, Systems and Components for Nuclear Power Reactors; Proposed Rule," dated May 16, 2003.	68 FR 26511
Final Rule, "Risk-Informed Categorization and Treatment of Structures, Systems and Components for Nuclear Power Reactors; Final Rule," dated November 22, 2004.	69 FR 68008
Final Rule, "Licenses, Certifications, and Approvals for Nuclear Power Plants; Final Rule," dated August 28, 2007.	72 FR 49352
SECY-15-0002, "Proposed Updates of Licensing Policies, Rules, and Guidance for Future New Reactor Applications," dated January 8, 2015.	ML13281A382
SRM-SECY-15-0002, "Staff Requirements—SECY-15-0002—Proposed Updates of Licensing Policies, Rules, and Guidance for Future New Reactor Applications," dated September 22, 2015.	ML15266A023

IV. Conclusion

For the reasons cited in this document, the NRC will consider the issue raised in the PRM in ~~its an ongoing rulemaking process, as resources become available, although the petitioner's concerns may not be addressed exactly as the petitioner has requested.~~

The NRC tracks the status of PRMs on its Web site at <https://www.nrc.gov/about-nrc/regulatory/rulemaking/rules-petitions.html>. In addition, the Federal rulemaking Web site (<http://www.regulations.gov>) allows you to receive alerts when changes or additions occur in a docket folder. To subscribe: (1) navigate to the docket folder (NRC-2009-0196); (2) click the

“E-mail Alert” link; and (3) enter your e-mail address and select how frequently you would like to receive e-mails (daily, weekly, or monthly). As in all rulemakings, the NRC will solicit and consider public comments during the proposed rule phase of the rulemaking, before determining the approach that will become the basis for the final rule. Publication of this document in the *Federal Register* closes Docket ID NRC-2015-0028 for PRM-50-110.

Dated at Rockville, Maryland, this day of , 2018.

For the Nuclear Regulatory Commission.

Annette L. Vietti-Cook,
Secretary of the Commission

FEDERAL REGISTER NOTICE FOR PETITION FOR RULEMAKING ON APPLICABILITY OF RISK-INFORMED CATEGORIZATION AND TREATMENT OF STRUCTURES, SYSTEMS, AND COMPONENTS FOR NUCLEAR POWER REACTORS (PRM-50-110; NRC-2015-0028; NRC-2009-0196] **DATED**

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ADAMS Accession Nos.: Pkg - ML16229A101; FRN - ML16229A257 *via email

OFFICE	NMSS/DRM/RRPB/PM	NMSS/DRM/RRPB/RS	NMSS/DRM/RRPB/BC	NRO/DLSE/LB-3/BC*
NAME	ACarrera	GLappert	MKhanna	JColaccino (JRenkin for)
DATE	6/20/2018	6/20/2018	6/28/2018	6/25/2018
OFFICE	NMSS/DRM/D*	NRO/DLSE/AD*	OGC*	NMSS/DRM/RASB/BC
NAME	PHolahan (TClark for)	RTaylor (ABradford for)	TCampbell (ASilvia for)	CBladey
DATE	7/9/2018	8/20/2018	8/22/2018	8/31/2018
OFFICE	NRO/D	OEDO	SECY	
NAME	FBrown (VOrdaz for)	MDoane	AVietti-Cook	
DATE	9/13/18	9/ /18	9/ /18	

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

JMB edits

Mr. Michael D. Tschiltz
1201 F Street, NW
Suite 1100
Washington, DC 20004

Dear Mr. Tschiltz:

I am responding to the petition for rulemaking (PRM) that you submitted on behalf of the Nuclear Energy Institute, to the U.S. Nuclear Regulatory Commission (NRC) on January 15, 2015.¹ You requested that the NRC ~~to~~ modify its regulations in Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.69, "Risk-informed categorization and treatment of structures, systems and components for nuclear power reactors," to clarify and extend their applicability to allow licensees under 10 CFR Part 52, ~~"Licenses, Certifications, and Approvals for Nuclear Power Plants,"~~ to voluntarily request to implement the provisions of 10 CFR 50.69. The NRC docketed the PRM on February 6, 2015, under Docket Number PRM-50-110.

On March 27, 2015, the NRC published a notice of docketing in the *Federal Register* (80 FR 16308). The NRC held a public meeting on September 16, 2015,² to gain further understanding of the scope and basis for the PRM.

The NRC has reviewed your petition and supporting rationale. For the reasons provided in the enclosed *Federal Register* notice, the NRC will consider the ~~technical~~ issue raised in your PRM in the ongoing Incorporation of Lessons Learned From New Reactor Licensing Process (Parts 50 and 52 Licensing Process Alignment) rulemaking.

The NRC tracks the status of PRMs on its Web sites at <http://www.nrc.gov/reading-rm/doc-collections/rulemaking-ruleforum/petitions-by-year.html> and <https://www.nrc.gov/about-nrc/regulatory/rulemaking/rules-petitions.html>. In addition, the NRC publishes a Unified Agenda, which is a semiannual compilation of all rules on which the NRC has recently completed action, has proposed action, or is considering action. The Unified Agenda may be found ~~is~~ posted on the NRC's rulemaking Web site at <http://www.nrc.gov/about-nrc/regulatory/rulemaking.html>. As in all rulemakings, the NRC will solicit and consider public comments during the proposed rule phase of the rulemaking before determining the approach that will be the basis for the final rule.

~~Further~~ NRC action on the issue raised in PRM-50-110 can also be monitored on the Federal rulemaking Web site, <http://www.regulations.gov>, by searching for Docket ID NRC-2015-0028, ~~which is~~ the docket number for assigned to this petition (PRM-50-110), and Docket ID NRC-2009-0196, ~~which is~~ the docket number for the Incorporation of Lessons Learned From New Reactor Licensing Process (Parts 50 and 52 Licensing Process Alignment) rulemaking. ~~In~~ addition, ~~you can also~~ the Federal rulemaking Web site allows you to receive alerts through this Web site when changes or additions occur in a docket folder. To subscribe to alerts: (1) navigate to the docket folder (NRC-2009-0196), (2) click the "Sign up for E-mail Alerts" link, and

¹ Agencywide Documents Access and Management System (ADAMS) Accession No. ML15037A481.

² The summary of this meeting may be found at ADAMS Accession No. ML15268A353.

(3) enter your e-mail address and select how frequently you would like to receive e-mails (daily, weekly, or monthly).

~~The NRC tracks the status of PRMs on its Web sites at <http://www.nrc.gov/reading-rm/doc-collections/rulemaking-ruleforum/petitions-by-year.html> and <https://www.nrc.gov/about-nrc/regulatory/rulemaking/rules-petitions.html>. In addition, the NRC publishes a Unified Agenda, which is a semiannual compilation of all rules on which the NRC has recently completed action, has proposed action, or is considering action. The Unified Agenda may be found on the NRC's rulemaking Web site at <http://www.nrc.gov/about-nrc/regulatory/rulemaking.html>. As in all rulemakings, the NRC will solicit and consider public comments during the proposed rule phase of the rulemaking before determining the approach that will be the basis for the final rule.~~

The docket for this petition is closed. You may direct any questions regarding this matter to Andrew Carrera at 301-415-1078, or by e-mailing Andrew.Carrera@nrc.gov.

Sincerely,

Annette L. Vietti-Cook
Secretary of the Commission

Enclosure:
Federal Register notice

LETTER TO PETITIONER FOR RULEMAKING ON APPLICABILITY OF RISK-INFORMED CATEGORIZATION AND TREATMENT OF STRUCTURES, SYSTEMS, AND COMPONENTS FOR NUCLEAR POWER REACTORS (PRM-50-110; NRC-2015-0028) **DATED**

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ADAMS Accession Nos.: Pkg - ML16229A101; Ltr - ML16229A252

***via email**

OFFICE	NMSS/DRM/RRPB/PM	NMSS/DRM/RRPB/RS	NMSS/DRM/RASB/BC	NMSS/DRM/RRPB/BC
NAME	ACarrera	GLappert	CBladey	MKhanna
DATE	6/20/18	6/20/18	6/28/18	6/28/18
OFFICE	NRO/DLSE/LB-3/BC*	NMSS/DRM/D*	NRO/DLSE/AD*	OGC*
NAME	JColaccino (JRenkin for)	PHolahan (TClark for)	RTaylor (ABradford for)	TCampbell (ASilvia for)
DATE	6/25/18	7/9/18	7/14/18	8/22/18
OFFICE	NMSS/DRM/RASB/BC	NRO/D	OEDO	SECY
NAME	CBladey	FBrown (VOrdaz for)	MDoane	AViitti-Cook
DATE	8/31/18	9/13/18	9/ /18	9/ /18

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